

AMENDMENTS TO THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A production method for an optical lens comprising the steps of:

injecting and hardening a first resin into a resin-injection portion of a base body, the first resin being a light hardening resin or a heat hardening resin;

forming a pre-lens by further injecting a second resin on the hardened first resin, the second resin being the light hardening resin or the heat hardening resin; and

forming a lens by hardening the second resin,

wherein a shape of the formed lens is based on a weight of the second resin and a surface tension of the second resin.

2. (Original) The production method for the optical lens in accordance with claim 1, wherein refraction index of the second resin is higher than that of the first resin.

3. (Previously Presented) The production method for the optical lens in accordance with claim 1, wherein the first resin and the second resin are ultraviolet hardening resin and they are hardened by irradiating ultraviolet rays thereon.

4. (Previously Presented) The production method for the optical lens in accordance with claim 1, wherein, in the step of forming a lens, the wave front aberration

of light transmitted by the pre-lens is measured, and the lens is formed to have a wave front aberration close to 0.

5. (Currently Amended) A production method for an optical fiber connector in which a lens is formed at a resin-injection portion positioned at a tip of a core led out from an edge portion of an optical fiber,

the production method comprising the steps of:

injecting and hardening a first resin into the resin-injection portion, the first resin being a light hardening resin or a heat hardening resin;

forming a pre-lens by further injecting a second resin on the hardened first resin, the second resin being the light hardening resin and the heat hardening resin; and

forming a lens by hardening the second resin,

wherein a shape of the formed lens is based on a weight of the second resin and a surface tension of the second resin.

6. (Previously Presented) The production method for the optical lens in accordance with claim 2, wherein the first resin and the second resin are ultraviolet hardening resin and they are hardened by irradiating ultraviolet rays thereon.

7. (Previously Presented) The production method for the optical lens in accordance with claim 2, wherein, in the step of forming a lens, the wave front aberration of light transmitted by the pre-lens is measured, and the lens is formed to have a wave front aberration close to 0.

8. (Previously Presented) The production method for the optical lens in accordance with claim 3, wherein, in the step of forming a lens, the wave front aberration of light that has transmitted the pre-lens is measures, and the lens is so formed as to have such a shape that wave front aberration is close to 0.

9. (Cancelled)

10. (Currently Amended) The production method for the optical lens in accordance with claim 1, wherein-a the shape of the formed lens is created without using a stamper.